

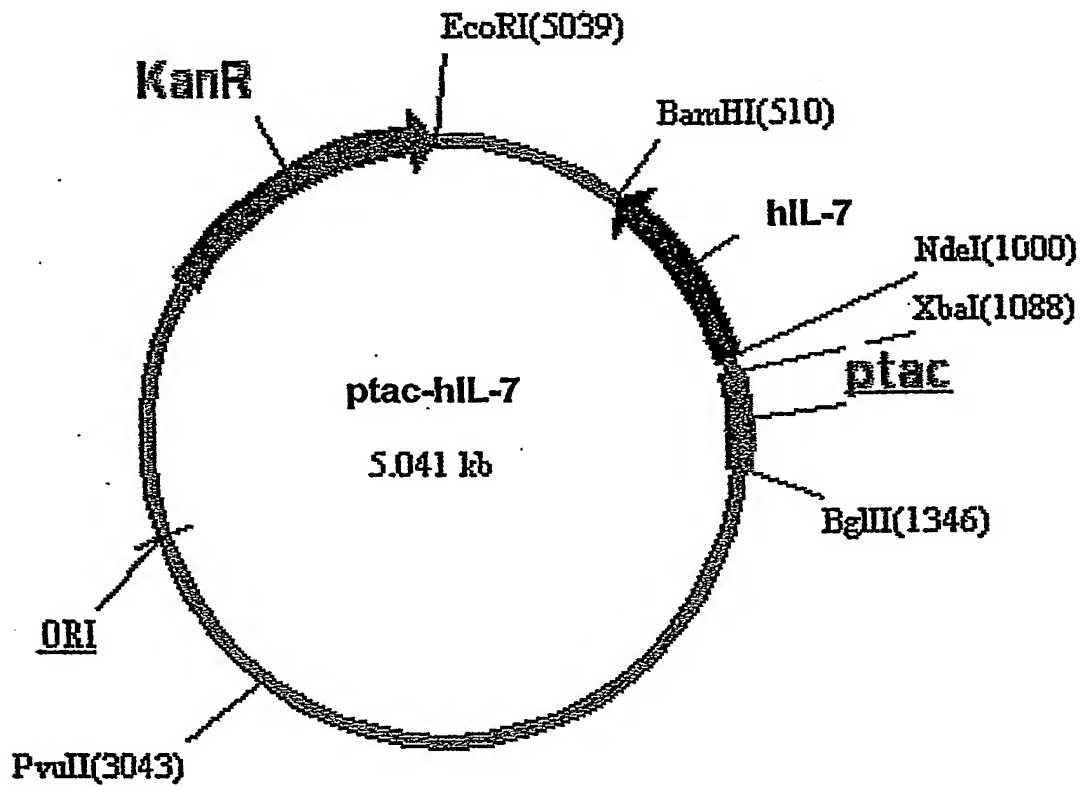
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Figure 1

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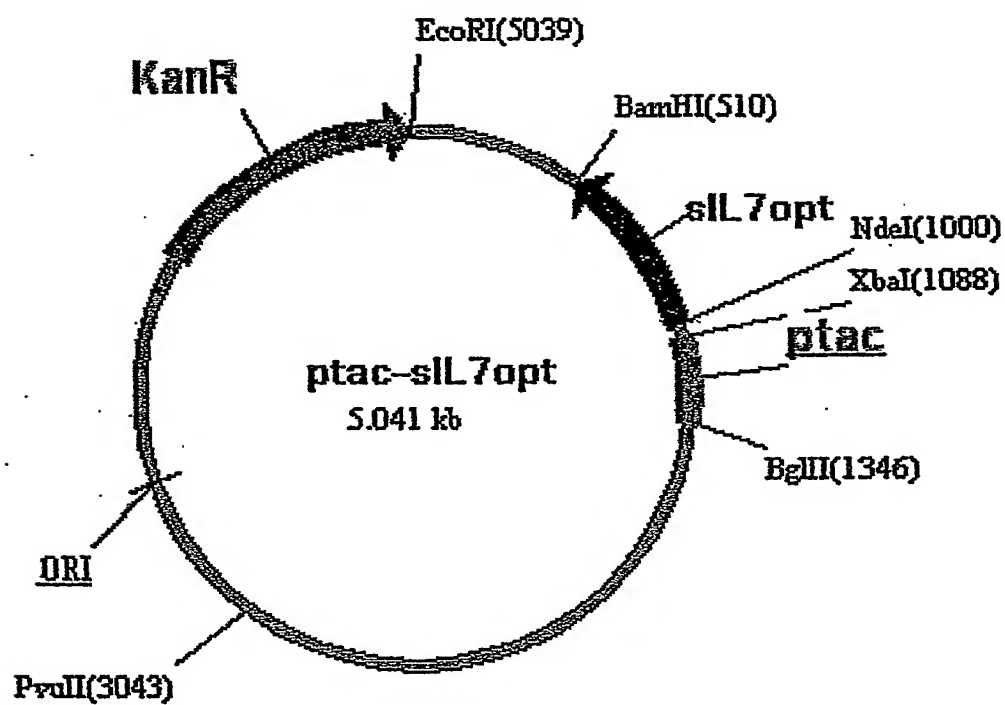


Figure 2

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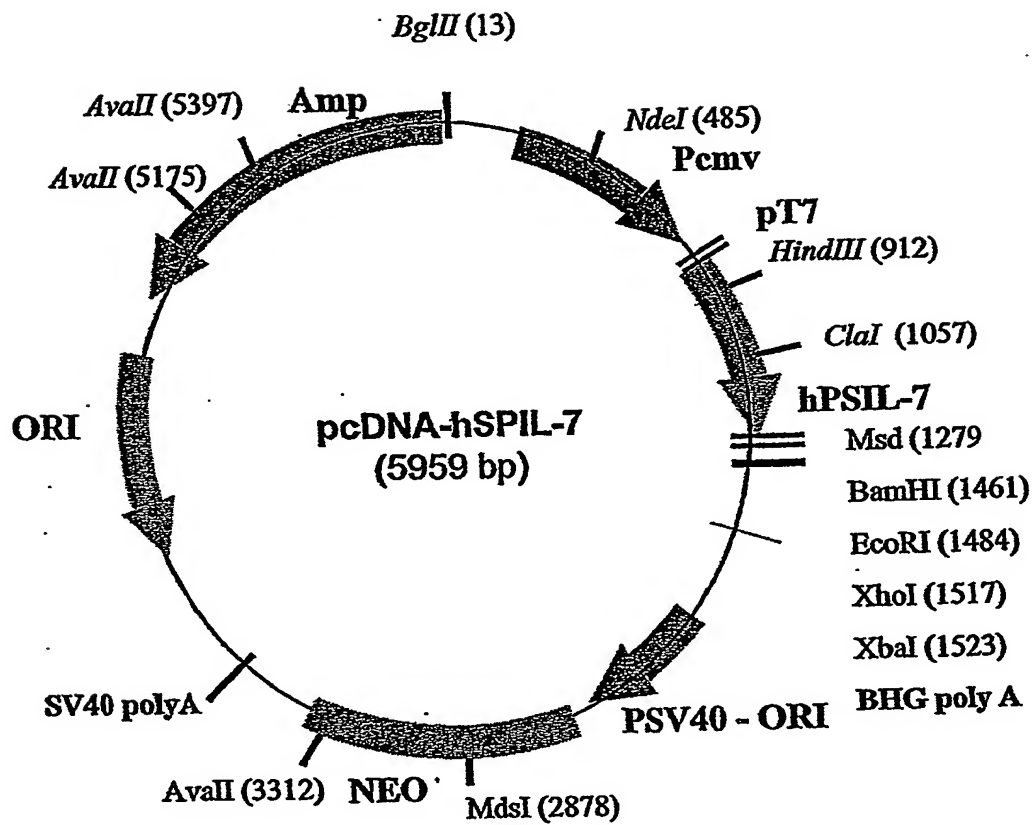


Figure 3

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Lalign output for human IL7 vs. monkey IL7 cDNA

98.1%

 identity in 534 nt overlap; score: 2580 E(10,000): 3.3e-207

human	10	20	30	40	50	60
	<u>ATGTTCCATGTTTCTTTAGGTATATCTTTGGACTTCCTCCCCTGATCCTTGTTCTGTTG</u>					
monkey	<u>ATGTTCCATGTTTCTTTAGGTATATCTTTGGACTTCCTCCCCTGATCCTTGTTCTGTTG</u>					
human	70	80	90	100	110	120
	CCAGTAGCATCATCTGATTGTGATATTGAAGGTAAGATGGCAAACAATATGAGAGTGTT					
monkey	CCAGTAGCATCATCTGATTGTGATATTGAAGGTAAGATGGCAAACAATATGAGAGTGTT					
human	130	140	150	160	170	180
	CTAATGGTCAGCATCGATCAATTATTGGACAGCATGAAAGAAATTGGTAGCAATTGCCTG					
monkey	CTAATGGTCAGCATCGATCAATTATTGGACAGCATGAAAGAAATTGGTAGCAATTGCCTG					
human	190	200	210	220	230	240
	AATAATGAATTTAACTTTTTTAAAAGACATATCTGTGATGCTAATAAGGAAGGTATGTTT					
monkey	AATAATGAATTTAACTTTTTTAAAAGACATCTA TGTGATGATAATAAGGAAGGTATGTTT					
human	250	260	270	280	290	300
	TTATTCCGTGCTGCTCGCAAGTTGAGGCAATTTCTTAAAATGAATAGCACTGGTGATTTT					
monkey	TTATTCCGTGCTGCTCGCAAGTTGAGGCAATTTCTTAAAATGAATAGCACTGGTGATTTT					
human	310	320	330	340	350	360
	GATCTCCACTTATTTAAAAGTTTCAGAAGGCACAACAATACTGTTGAACTGCACTGGCCAG					
monkey	GATCTCCACTTATTTAAAAGTTTCAGAAGGCACAACAATACTGTTGAACTGCACCGGCAAG					
human	370	380	390	400	410	420
	GTTAAAGGAAGAAAACCAGCTGCCCTGGGTGAAGCCCAACCAACAAAGAGTTTGAAGAA					
monkey	GTTAAAGGAAGAAAACCAGCTGCCCTGGGTGAACCCCAACCAACAAAGAGTTTGAAGAA					
human	430	440	450	460	470	480
	AATAAATCTTTAAAGGAACAGAAAAAACTGAATGACTTGTGTTTCCTAAAGAGACTATTA					
monkey	AATAAATCTTTAAAGGAACAGAAAAAACTGAATGACTCATGTTTCCTAAAGAGACTACTA					
human	490	500	510	520	530	
	<u>CAAGAGATAAAAACTTGTGGAATAAAATTTTGATGGGCACTAAAGAACACTGA</u>					
monkey	<u>CAAA AGATAAAAACTTGTGGAATAAAATTTTGATGGGCACTAAAGAACACTGA</u>					

Figure 4

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Comparison of :

(A) /tmp/www-sib/lalign.17549.1.seq sp|P13232|
IL7_HUMAN (IL7)INTERLEUKIN-7 PRECURSOR - 177 AA
(B) /tmp/www-sib/lalign.17549.2.
SEQUENCE MONKEY IL7 PRECURSOR - 177 AA

96.6% identity in 177 aa overlap; score: 1144 E(10,000): 1.3e-95

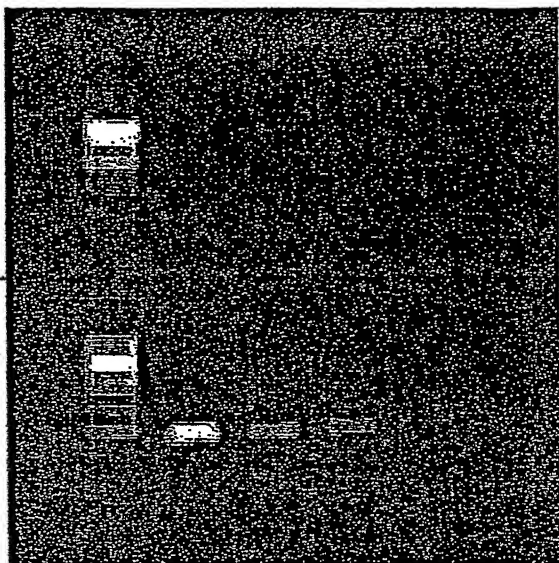
human MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDGGKQYESVLMVSIQQLDSMKEIGSNCL
monkey MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDGGKQYESVLMVSIQQLDSMKEIGSNCL

human NNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQ
monkey NNEFNFFKRHLCDNKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGK

human VKGRKPAALGEAQPPTSLEENKSLKEQKKLNDLCFLKRLQEIKTWCWNKILMGTKEH
monkey VKGRKPAALGEPQPPTSLEENKSLKEQKKLNDSCFLKRLQKIKTCWNKILMGTKEH

Figure 5

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← Simian IL-7 PCR products

Figure 6

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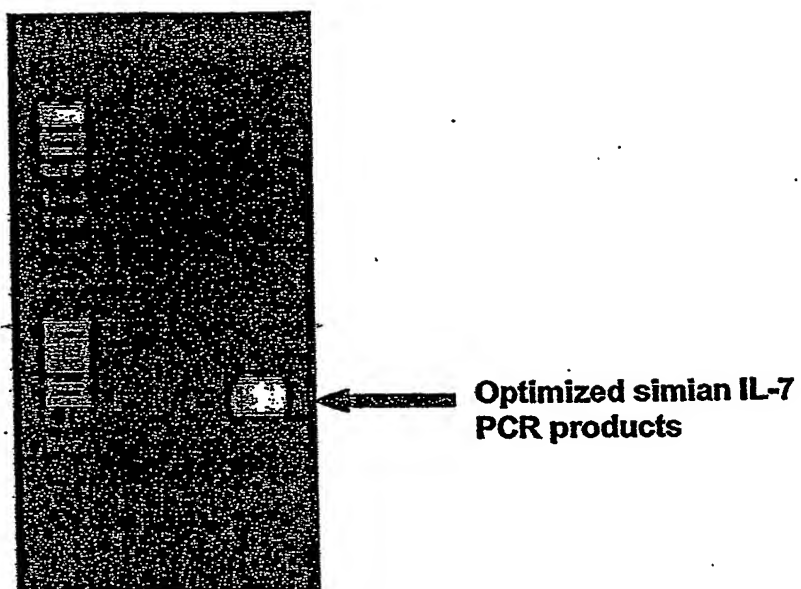


Figure 7

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Human PS-IL-7
PCR product

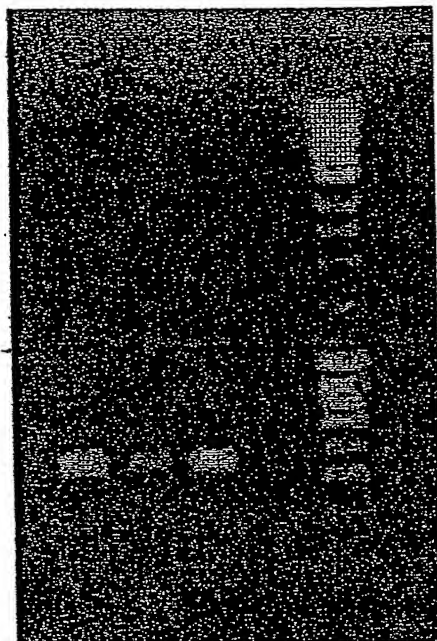
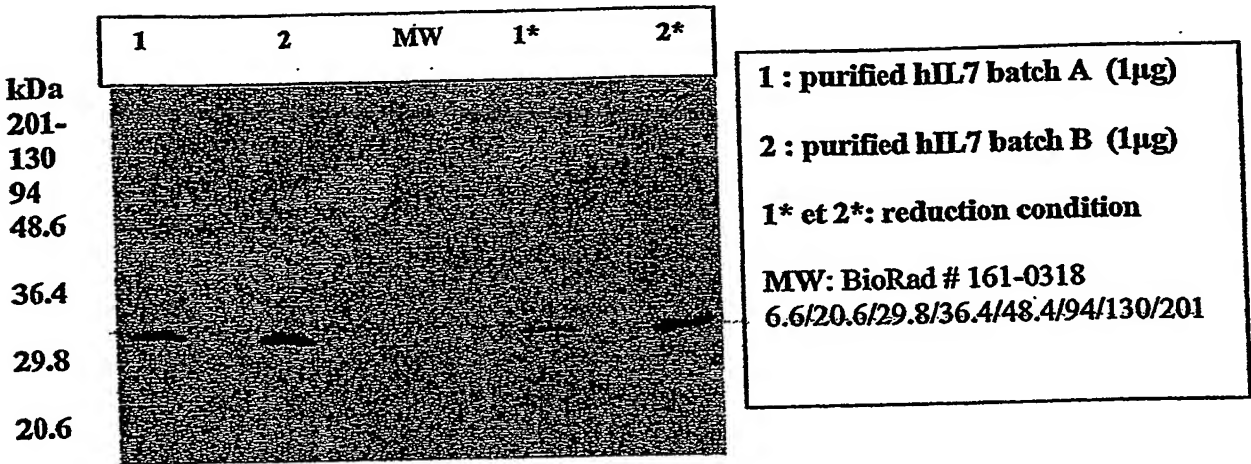


Figure 8

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SDS-PAGE Coomassie Blue staining 15%



SDS-PAGE Silver staining 15%

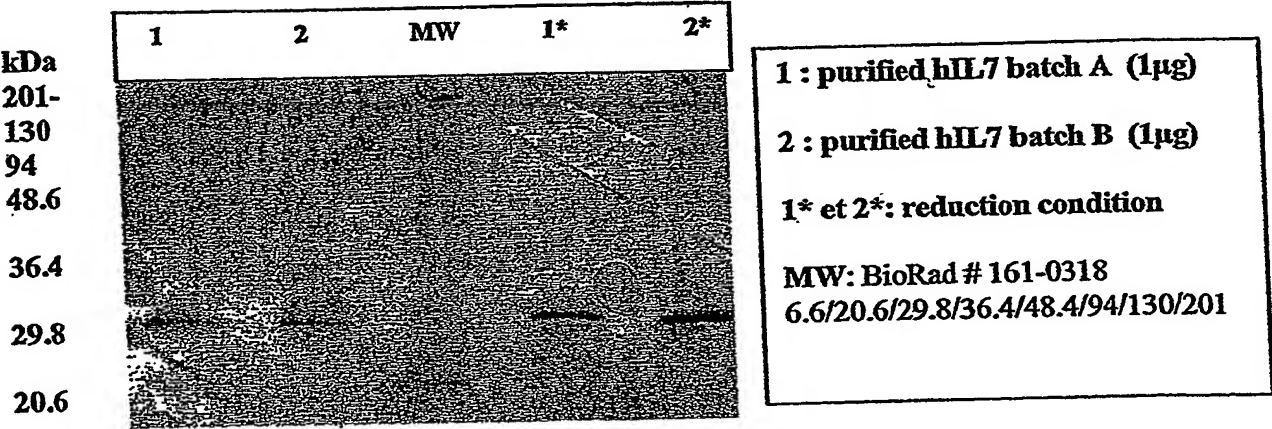


Figure 9

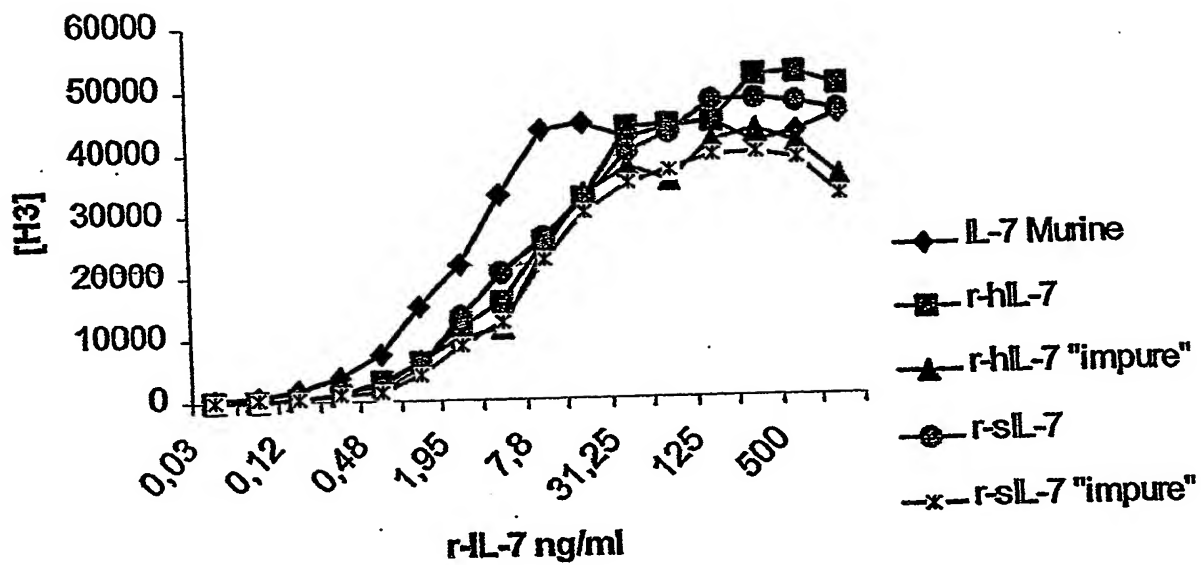
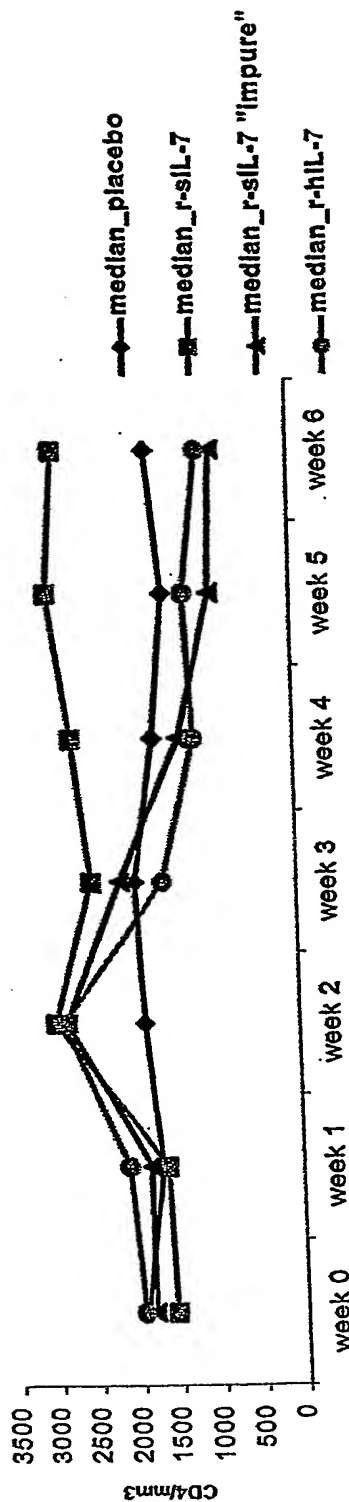
10/18**Thymidine Assay with the PB-1 Cell Line**

Figure 10

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In vivo effects of r-IL-7 on CD4 T cell count in normal non human primates model

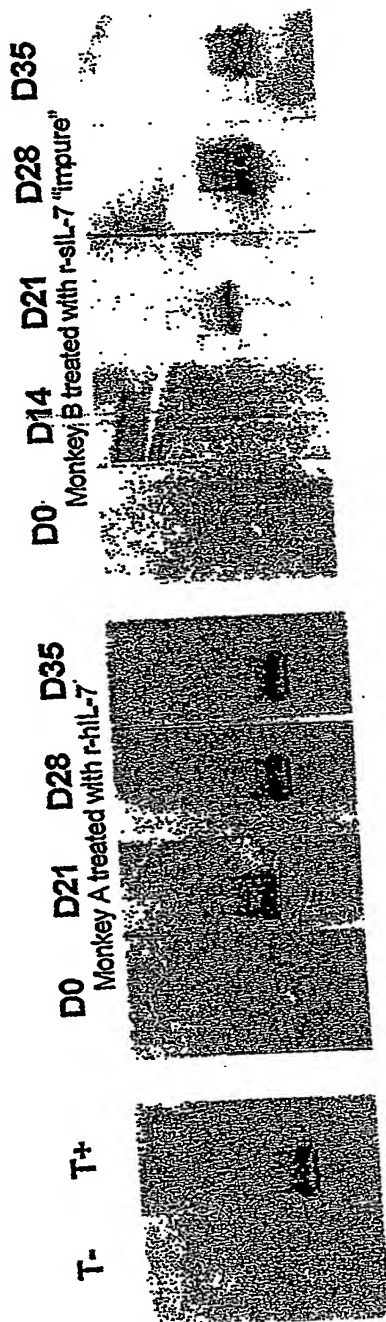


r-IL-7 Treatment

Figure 11

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Western Blot analysis of IL-7-treated monkeys sera for the detection of anti-IL-7 antibodies



* Monkeys treated with r-sIL-7 remain negative up to day 35 (data not shown)

Figure 12

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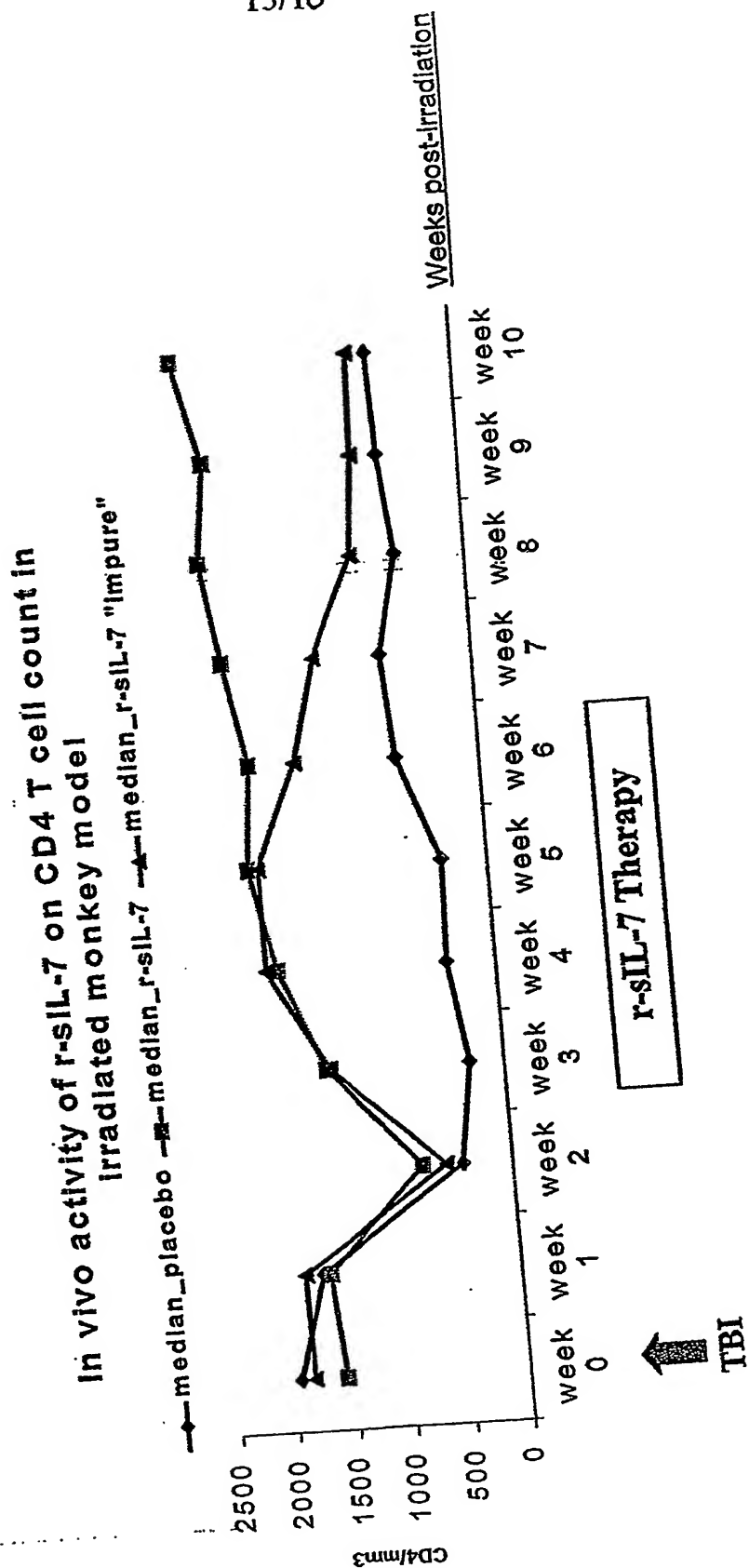


Figure 13

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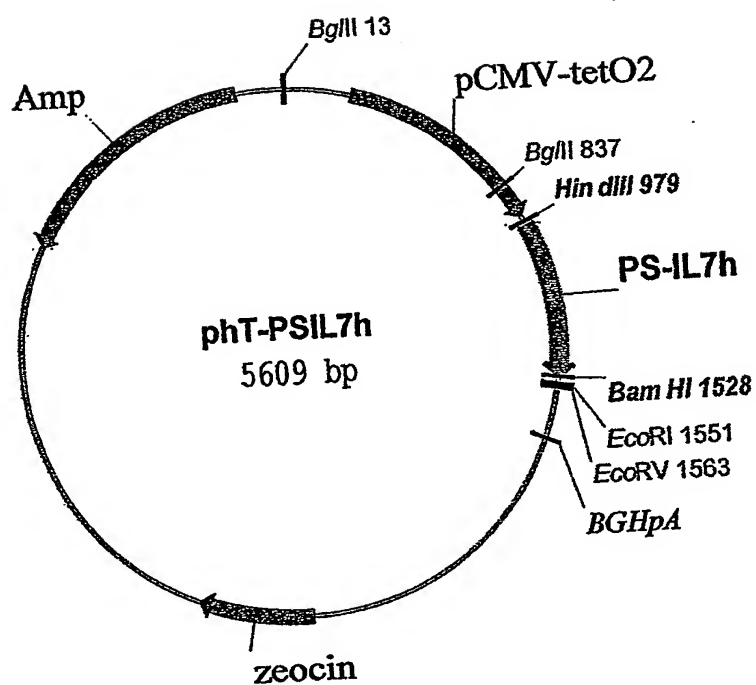


Figure 14

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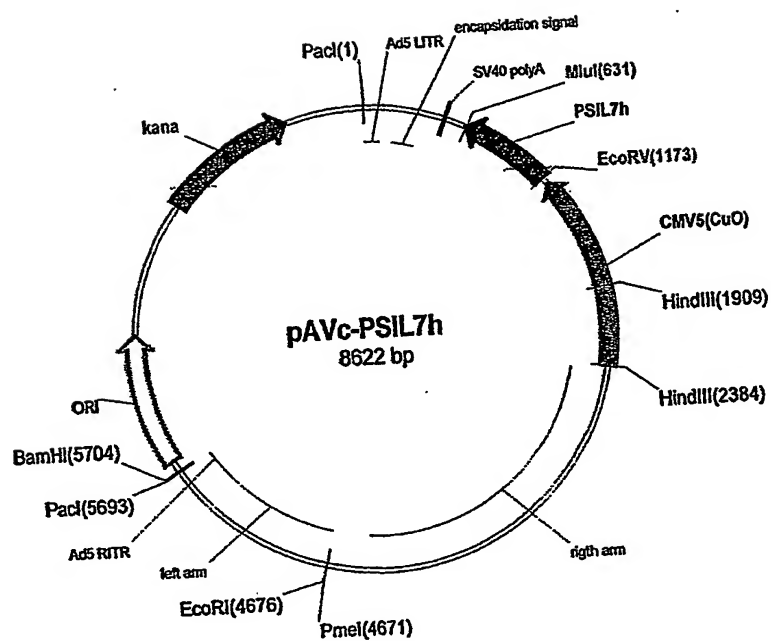


Figure 15

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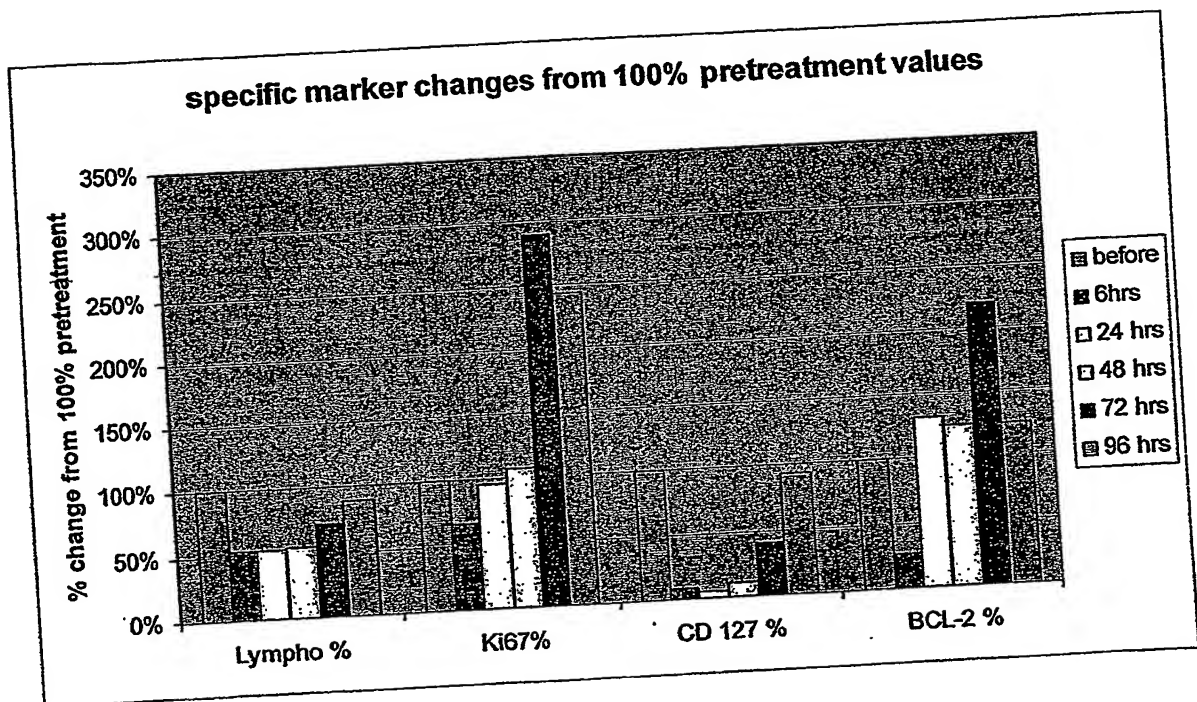


Figure 16

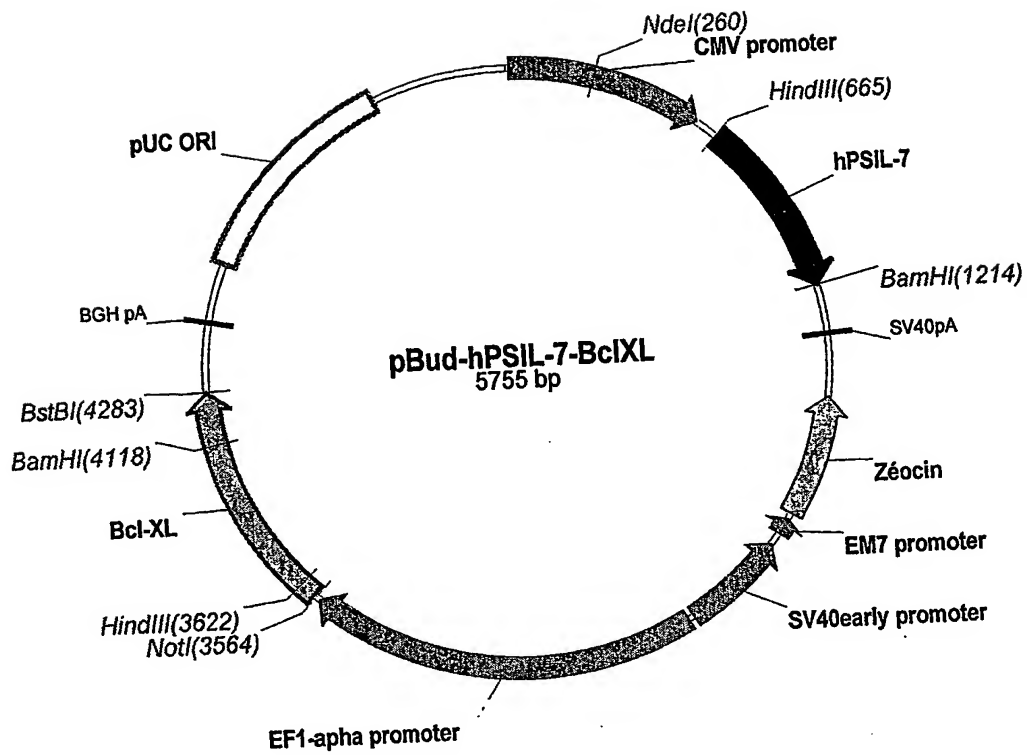
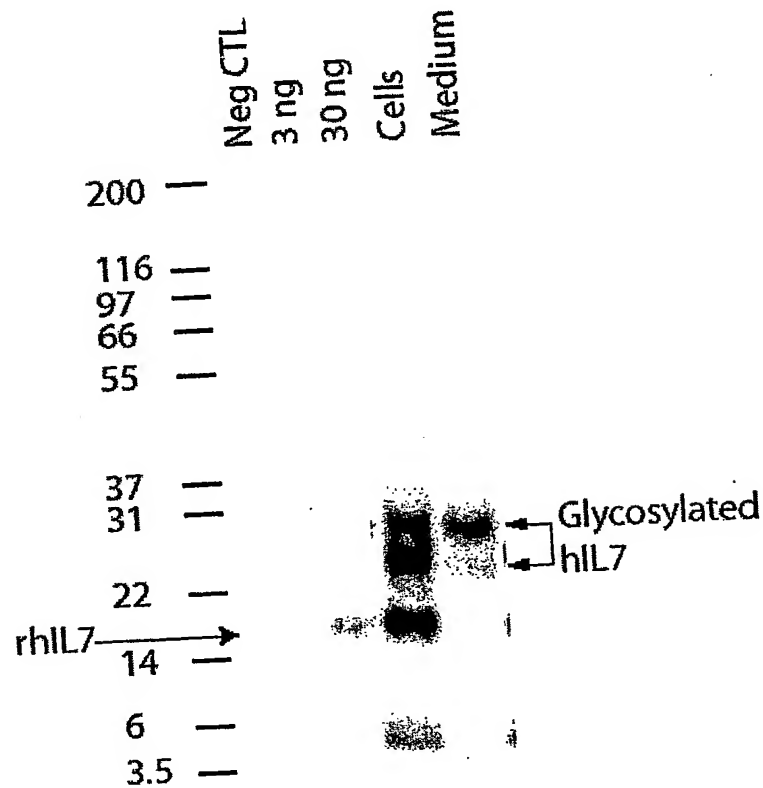


FIGURE 17

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hIL7 expression in HEK293 cells by
transient transfection

rhIL7 = E.coli expressed hIL7
11.25 ul of samples loaded per lane
Cell extract = 300 ul total
Medium = 2 ml total

FIGURE 18